## A KEY TO THE GENERA OF BUTHIDAE (SCORPIONIDA)¹

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The family Buthidae is the largest and most widely distributed group of scorpions; 43 genera and over 560 species and subspecies are known. The principle characteristic of the family is the subtriangular sternum. ${ }^{3}$ Exterior and interior pedal spurs are present. These frequently have small lateral spurs. In many genera a tibial spur is present on the third and fourth, or only fourth, pair of legs. Three or five pair of lateral eyes and often a subaculear tooth or tubercle are present. The pedipalp femur ventral surface lacks trichobothria. The cheliceral movable finger is always forked; the inner dorsal margin has four denticles of which the second is generally the largest and the most proximal two are quite small. The female genital operculum is divided. The eggs are relatively large and rich in yolk. The book-lung lamellae are reticulate and the venom glands are plicate. All scorpions containing a highly toxic venom are found in this family. In general the buthids are cryptophiles and do not use their legs in a typical digging manner. The defensive stinging behavior consists of a quick flick of the aculeus followed by an attempt at a hasty retreat. The stinging behavior is seldom a deliberate threatening gesture.

The recognition of subfamilies in the Buthidae has been a subject of much disagrecment. Previous attempts to recognize this category are unsatisfactory. A careful comparative study, involving both subjective and quantitative data, is necessary. Therefore, at this time

[^0]subfamilies will not be recognized and only a key to the known genera is presented. The number in parentheses after the genus type is an approximation of the number of species and subspecies.

1. Tibial spur only on legs III
2. Tibial spur on legs III and IV
3. No tibial spurs

4(1). Always three trichobothria on external surface of pedipalp femur. Terga trikeeled (fig. 1). No subaculear tooth. Two denticles on ventral surface of cheliceral fixed finger (fig. 2)

Buthiscus Birula, 1905, (Trichobuthus Vachon, 1941)


Fig. 1. Tri-keeled tergum: median and two lateral keels.


Fig. 2. Ventral view of chelicera; fixed finger with two denticles.

TYPE: B. bicalcaratus (1); DISTRIBUTION: Africa: Southern Tunisia; AIgeria (Bene-Abbēs, Biskra, Bou-Saada).

5(1). Trichobothrial number not as above. Terga mono- or tri-keeled; subaculear tooth or tubercle may or may not be present. Fixed finger may or may not be denticulate
6(5). Vestigial tibial spur on leg IV (fig. 3). Vestigial median keel on terga $V$ and VI. Non-oblique rows of granules on cutting edge of tibial finger and tarsus

Anomalobuthus Kraepelin, 1900
TYPE: A. rickmersi Kraepelin, 1900 (1); DISTRIBUTION: USSR: Kazakhstan (Syr-Darya River Region near Dahusaly and Turkestan); Uzbekistan (Bukhara); Turkmenvya (Repetek).

7(5). Well developed tibial spur on leg IV. Granular rows on cutting edge of pedipalp tarsus imbricated (fig. 4). Two denticles on ventral edge of fixed cheliceral fingers. No keels on carapace. Terga mono-keeled Babycurus Karsch, 1886, (Rhoptrurus Pocock, 1890)

TYPE: B. buttneri Karsch, 1886 (19); DISTRIBUTION: Africa: Madagascar, Dondo, Somalia, Eritrea, Gabon (Ogowe R.), Atakpame of Togo and Kete Kratchi of Gold Coast, Togo to Cameroons.


Fig. 3. Vestigial tibial spur (after Kraepelin).


Fig. 4. Babycurus pedipalp tarsus imbricated granular rows.

8(3). Exterior pedal spur of leg IV very long, stout, undivided but very hirsute; much larger than interior pedal spur (fig. 5). No subaculear tooth or tubercle. Terga tricostate. Tarsomere I of anterior legs depressed and thickly fringed with setae
. Plesiobuthus Pocock, 1900
TYPE: P. paradoxus Pocock, 1900 (1); DISTRIBUTION: N. Baluchistan (Pakistan).
$9(3)$. Pedal spurs not as above and extra spiniform process either lacking or not conspicuous. Subaculear protuberance may or may not be present


Fig. 5. Unequal pedal spurs of Plesiobuthus.


Fig. 6. Penta-keeled terga of Microtityus.

10(9). Cheliceral fixed finger without teeth on inferior surface. Terga distinctly


TYPE: Isometrus fuscus Thorell, 1877 (2); DISTRIBUTION: S. America: Paraguay, Argentina (Cordoba, San Luis, Rio Negro, La Pampa, Jujuy).

11(9). Cheliceral fixed finger with one tooth on inferior surface. Terga mono- or penta-keeled
12(11). Terga penta-keeled (fig. 6). Individuals small, 17-19.5 mm; pectinal teeth 8 -11
Microtityus Kj-Waering
TYPE: Microtityus rickyi Kj-Waering (2); DISTRIBUTION: Teteron Bay, Trinidad (W.I.); Coast Mountain Range, Venezuela.

13(11). Terga mono-keeled
14(13). Pedipalp tarsus with five or less distinct median oblique rows of granules plus a short apical and a compound basal row. No supernumerary lateral granules (figs. 7 \& 9). A well developed subaculear tooth Tarsomere 1 not depressed and not fringed with setae

Isometrus H \& E. 1828
TYPE: Scorpio europeus Linn, 1858 (14); DISTRIBUTION: Most widely distributed genus. Doubtful in U.S.; early records are mistaken determinations based on early instars of Centruroides. Taken in: Africa, Australia, Burma, Ceylon, Hawaii, India, Java, South America, South Sea Islands, West Indies.


Fig. 7. Isometrus pedipalp tarsus non-imbricated granular row.


Fig. 8. Buthid trichobothrial pattern.

15(13). Pedipalp tarsus with six or more median rows of granules plus a short apical row and there may or may not be a compound basal row
16(15). Ratio between distances of trichobothria $D_{2}$ to $D_{\overline{1}}$ and $D_{1}$ to $D_{3} 0.80$ or over (fig. 8). Cauda of $\hat{\delta}$ broader distally, equal or slightly longer than $ㅇ$. Sternite 111 of basilary area granular. Dorsal furrow of caudal segment $V$ deep

Rhopalurus Thorell, 1876

TYPE: Rhopalurus laticauda Thorell, 1876 (28); DISTRIBUTION: Cuba; South America: Argentina, Brazil, Colombia, Guiana, Venezuela; West Indies.

17(15). Ratio between distances of trichobothria $D_{2}$ to $D_{\overline{3}}$ and $D_{1}$ to $D_{3} 0.65$ or under. Cauda of $\hat{\delta}$ not distinctly broader distally and much longer than 9 . Sternite III of basilary area smooth or almost smooth. Dorsal furrow of caudal segment $V$ shallow or absent
18(17). Pedipalp tarsus with not over 9 distinct median oblique granular rows plus a short apical row and with or without a compound basal row. In adult, supernumerary granules (fig. 9) flanking the oblique median granular rows

Centruroides Marx, 1889, (Centrurus H \& E, 1828)
TYPE: Buthus exilicauda Wood, 1863 (67); DISTRIBUTION: Southern half of U. S. south to Argentina, Chile, West Indies and Galapagos Isl. with center of distribution in Mexico.

19(17). Pedipalp tarsus bearing not less than 14 distinct median oblique granular rows plus a short apical row but without a compound basal row. Supernumerary granules lacking
Tityus C. L. Koch, 1836, (Androcottus Karsch, 1836), (Phasus Thorell, 1876)
TYPE: Scorpio bahensis Perty, 1830-34 (112); DISTRIBUTION: South America and West Indies. U. S. species doubtful.


Fig. 9. Centruroides pedipalp tarsus with interior lateral granules ( ilg ), exterior lateral granules (elg) and supernumerary granules ( sg ).


Fig. 10. Anoplobuthus. A. Carapace, B. Sternum, C. Part of pedipalp tarsus: imbricating granular rows.

20(2). Pectines without fulcra
22(20). Granules on cutting edge of pedipalp tarsus in nearly one continuous row. Basal row longer than both the preceding rows. Pectinal teeth: $\circ$ 16-17. if caudal segment I width approximately equals length; carapace longer than pedipalp tarsus

Ananteris Thorell, 1891

TYPE: A. balzani Thorell, 1891 (3); DISTRIBUTION: South America: Argentina, Brazil, Paraguay, Venezuela.

23(20). Granules on cutting edge of pedipalp tarsus in oblique rows. Pectinal teeth: 오 12-14. ㅇ caudal segment I wider than long; carapace length approximately equals length of pedipalp tarsus ..... Ananteroides Borelli, 1911
TYPE: A. feae Borelli, 1911 (1); DISTRIBUTION: Africa: Cacondo (Rio Cassine), Angola.

24(21). Cheliceral fixed finger without teeth on inferior surface
25(21). Cheliceral fixed finger with one or two teeth on inferior surface
26(24). Terga three-keeled. No granules on basal one-third of cutting edge of pedipalp tarsus; genital operculum length more than twice that of sternum. No subaculear protuberance. Movable cheliceral finger with only one ventral denticle. Pectinal teeth: 16-17

Nanobuthus Pocock, 1895
TYPE: N. andersoni Pocock, 1895 (1); DISTRIBUTION: Africa: Sudan (Duroar, 60 mi . N. of Suakin).

27(24). Terga one- to three-keeled; granules entire length of cutting edge of pedipalp tarsus; genital operculum length not more than twice that of sternum .(28)
28(27). Granular rows of pedipalp tarsus with an inner and outer flanking series. Pectinal teeth: of over $15 / 15$; oq over $10 / 10$
29(27). Granular rows of pedipalp tarsus with only an inner flanking series. Pectinal teeth: of $15 / 15$; of $10 / 10$

Karasbergia Hewitt, 1914
TYPE: K. menthueni Hewitt, 1914 (1); DISTRIBUTION: S.W. Africa (Kuibis, Narubis Sud); Cape Prov. (NW Upington, Pofadder).

30(28). Carapace without keels; anterior margin concave (fig. 10A). Sternum somewhat subpentagonal, slightly longer than wide, anterior end not sharply pointed (fig. 10B). Tibial finger and tarsus with eleven oblique granular rows, some of which may be imbricated, each consisting of approximately seven small granules flanked externally by two large granules but internally by only one (fig. 10C). Pectinal teeth: 15. Size: 13.2 mm

Anoplobuthus ${ }^{\text {C }}$ Caporiacco, 1932
TYPE: A. parvus Caporiacco, 1932 (1); DISTRIBUTION: Africa: Valley of Oued Tensift, Mauretania (Morocco).

31(28). Carapace without keels or with only vestige of posterior median keel. Sternum triangular and at least as long as wide. Tibial finger and tarsus with 9 to
${ }^{4}$ Figures and characteristics from original description. Type not available. From the shape of the sternum and the size, the type was about the second instar of an Uroplectes species. The granulation of the pedipalp fingers could be that of a young Uroplectes, or as Vachon suggests, the type is a juvenile Butheoloides moroccanus Hirst 1925, and that Caporiacco failed to observe weakly developed dentition of the inferior surface of the pedipalp fixed finger. The type locality would support this concept. The pedipalp finger granulation, however, would not. On the other hand, the pedipalp finger granulation of a second or third instar may be different from that of the adult, as is the case in the genus Centruroides.

13 oblique granular rows: if nine, they are flanked by two large external granules and only one internal; if 10-13, they are flanked by three large external granules and one or two internal ones. Pectinal teeth: 14-31

Uroplectes Peters, 1861
TYPE: U. ornatus Peters, 1861 (50); DISTRIBUTION: Africa: Madagascar, Tanganyika Territory (Masai Steppes), Kenya, Somalia, Ethiopia, East side Lake Nyasa; Congo through Cameroon; South Africa; Southwest Africa; Indo-China.

32(25). Rows of indistinct or absent granules (fig. 11) on proximal half of cutting edge of tibial finger and tarsus. Adult not over 3 cm .


Fig. 11. Microbuthus pedipalp tarsus.


Fig. 12. Butheolus pedipalp tarsus.

33(25). Distinct rows of granules on the entire length of cutting edge of tibial finger and tarsus (fig. 12)
34(32). Carapace very granulated (fig. 13); caudal segment $V$ punctate (fig. 14); axis of telson vesicle pectinate or scalloped; tibial finger of pedipalp with basal lobe on cutting edge

Microbuthus Kraepelin, 1898
TYPE: M. pussilus Kraepelin, 1898 (3); DISTRIBUTION: Arabia: Aden, Tadjura-Bai, Perim. Somaliland: Djibouti. Ethiopia (Abysinnia); Coast of Mauritania.

35(32). Smooth carapace. Caudal segment V smooth, not punctate; telson vesicle smooth. Pedipalp tibial finger without basal lobe on cutting edge

Lissothus Vachon, 1948
TYPE: L. bernardi Vachon, 1948 (2); DISTRIBUTION: N. Africa: S.W. Libya (Fezzan: El Abiod). West Africa: Mauritania (Atar).

## 36(33). Carapace keelless and granulated

37(34). Carapace without above combination of characteristics


TYPE: Lychas pegleri Purcell, 1901 (4); DISTRIBUTION: South Africa: Cape Province (near Port Elizabeth) (Untata); Natal: Orange Free State; Southern Rhodesia on Umfuli River; Transvaal; Zululand.

43(40). Basal granule of oblique rows of tibial finger and tarsus flanked exteriorly and interiorly by only one lateral granule. Basal pectinal tooth of 9 not enlarged. ...... Lychas C. L. Koch, 1845, (Archiosometrus Kraepelin, 1891)
TYPE: L. scutilis C. L. Koch, 1845 (50); DISTRIBUTION: Burma, China, India, Malaya, Philippines, Thailand; Australia; East, West and South Africa.

TYPE: N. berberensis Hirst, 1911 (1); DISTRIBUTION: Somaliland.
46(44). Ventral surface of cauda without keels, smooth and punctate. Subaculear protuberance not denticulate.

Butheoloides Hirst, 1925
TYPE: B. moroccanus Hirst, 1925 (3); DISTRIBUTION: Africa: Morocco (Amizmiz, Marrakech); Senegal (Joal); Máli (Mopti, Bandiagra).

47(44). Ventral surface of cauda with keels and granulated. Subaculear protuberance denticulate . . . . . . . . . . . . . . . . . . Odonturus Karsch, 1878, (Rhoptrurus Karsch, 1886), (Tityobuthus Pocock, 1890), (Pseudobuthus Kraepelin, 1896)
TYPE: O. dentatus Karsch, 1879 (2); DISTRIBUTION: Africa: Madagascar; Tanganyika (Masai Steppe, Tanga, Morogora); Kenya (Mombasa, Kibwezi, Pokomonie, Punda Milia, Tana R., Taita).

48(39). Interocular area of carapace sloping ventrad (fig. $15 \& 16$.
(50)


Fig. I5. Orthochirus dorsal aspect of carapace.


Fig. I6. Lateral view of Orthochirus carapace.

49(39). Interocular area of carapace horizontal
$50(48)$. Caudal segment $V$ punctate (fig. 14).
Orthochirus Karsch, 1891, (Orthodactylus Karsch, 1881)
TYPE: Buthus melanurus Kessler, 1876 (12); DISTRIBUTION: Asia: Israel, Iran (Seistan, Kerman); Syria; Socotra Isl.; N. Afghanistan; Persia; Bukhara; Arabia (Muscat, Djebel Mokattam); India; West Pakistan. Africa: Nubia; Libya (Ghadames); S. Algeria; Egypt; Somalia; Ethiopia. Europe: Sicily.

51(48). Caudal segment $V$ not punctate
Butheolus E. Simon, 1883
TYPE: B. thalassinus E. Simon, 1883 (3); DISTRIBUTION: Asia: Aden; Transcaspian-Gebiet (Bely-Bugor); Africa: Socotra Isl., Somalia (Tadjoura); Western and Northwestern India.

[^1]TYPE: P. zarudnyi Birula, 1911 (1); DISTRIBUTION: Russian Central Asia (Turkistan): Bank of Syr-Darja River between city of Skobelew (Margelan) and Namangan.

57(54). Pedipalp tarsus length about the same as manus external surface or carapace. Manus much wider than patella. Superciliary crests may or may not be present

Hemibuthus Pocock, 1900
TYPE: H. crassimanus Pocock, 1900 (3); DISTRIBUTION: Africa: Dekan, Nilgiris; India.

58(53). Granular rows of pedipalp tarsus not imbricated or only slightly so. Three non-linear distal granules just proximad to terminal tooth of pedipalp tarsus

Parabuthus Pocock, 1890, (Heterobuthus Kraepelin, 1891)
TYPE: Androctonus liosoma H \& E, 1828 (5I); DISTRIBUTION: Africa: East, South and Southwest.

59(53). All granular rows of pedipalp tarsus strongly imbricated
Grosphus E. Simon, 1880
TYPE: Scorpio madagascariensis Gervais, 1880 (11); DISTRIBUTION: Madagascar.

> 60(37). Inferior surface of cheliceral fixed finger with one denticle
> $61(37)$. Inferior surface of cheliceral fixed finger with two denticles
> 62(60). Tarsomere II of legs 1, 2, and 3 very flattened, with a distinct dorsal comb Liobuthus Birula, 1898

TYPE: L. kessleri Birula, 1898 (1). DISTRIBUTION: Russian Central Asia (Turkistan).

| 63(60). | Tarsomere II not as above | (84) |
| :---: | :---: | :---: |
| 64(61). | Terga mono-keeled | (66) |
| 65(61). | Terga tri- to penta-keeled | (68) |
| 66(64). | Carapace without keels. |  |

TYPE: S. sarasinorum Karsch, 1891 (2); DISTRIBUTION: Ceylon; India.
67(64). Carapace with keels. Granular rows of pedipalp tarsus not imbricated Charmus Karsch, 1879; (Heterocharmus Pocock, 1892)

TYPE: C. laneus Karsch, 1879 (2); DISTRIBUTION: Ceylon; India.

68(65). Anterior terga penta-keeled
Leiurus H \& E, 1829
TYPE: L. quinquestriatus H \& E, 1829 (1); DISTRIBUTION: Syria, Palestine, Yemen, Libya, Egypt.

TYPE: A pterygocercus Finnegan, 1932 (1); Distribution: Arabia.

71(69). Second caudal segment not as above
72(71). Trichobothrium $D_{4}$ proximal to, or about the same level as $D_{5}$; or if $D_{4}$ distal to $\mathrm{D}_{5}$, then with three distal granules just proximad to terminal tooth to pedipalp tarsus; width of caudal segments increasing posteriorly; tarsomere II of legs 1, 2, 3 with a dorsal bristle comb
73(71). Trichobothrium $D_{4}$ distal to $D_{5}$. With four distal granules just proximad to terminal tooth of pedipalp tarsus, width of caudal segments not increasing prosteriorly, and tarsomere 11 of legs 1, 2, 3 without a dorsal comb. .(74)
74(73). Tarsomere II soles with spines. Caudal segment IV and $V$ without ten complete keels

Buthotus Vachon, 1949, (Dasyscorpio Pallary, 1948)
TYPE: Buthus judaicus E. Simon, 1872 (27); DISTRIBUTION: Africa: S. Algeria, Morocco; Asia: Palestine, Mesopotamia, N. Arabia, S. Persia, Bukhara, Afghanistan, India.

75(73). Tarsal soles with bristles. All caudal segments with ten complete keels
Cicelius Vachon, 1950
TYPE: Buthacus exilis Pallary, 1928 (1); DISTRIBUTION: Algeria: Ahaggar Mts., Tassili-n-Ajjer.

76(72). Inferior lateral keels of caudal segment $V$ not uniformly granular; the granules increasing in size posteriorly and becoming denticulate or lobate distad (78)
77(72). Inferior lateral keels of caudal segment V evenly and finely granular throughout

Compsobuthus Vachon, 1949
TYPE: Buthus acutecarinatus E. Simon, 1882 (3); DISTRIBUTION: Africa: Mauritania, Sahara, Nubia, Tombouctou; Asia: Palestine; India.

78(76). Superciliary crests smooth. Caudal segment IV and $V$ without keels on dorsal surface Buthacus Birula, 1908

TYPE: Buthus leptochelys H \& E, 1829 (12); DISTRIBUTION: N. and N. W. Africa; West Asia to Persia.

79(76). Superciliary crests granular. Dorsum of caudal segments IV and $V$ with distinct or vestigial keels


Fig. 17. Androctonus carapace.


Fig. 18. Mesobuthus carapace showing lyre-configuration.

80(79). Caudal segment IV with strongly developed dorsal keels. Wdith of ampulla less than width of distal end of segment V . Lateral central keels of the carapace not distinctly joining the central median keels (fig. 17)

Androctonus H \& E, 1828, (Prionurus H \& E, 1828)
TYPE: Scorpio australis Linn, 1758 (19); DISTRIBUTION: North Africa; Asia: Iran, Mesopotamia, Israel, India, Pakistan.

81(79). Caudal segment IV with weakly developed dorsal keels; segment V with rounded dorso-lateral areas which are essentially keelless. Width of ampulla not less than distal width of segment V. The lateral central and central median keels of the carapace usually join in lyre-form configuration (fig. 18)

82(81). Small granules nearest the terminal tooth of pedipalp tarsus comprise a short apical row ( 3 or 4 granules) plus a large basal granule and flanked interiorly by two large granules (fig. 19). Five to seven very large granules arranged in transverse arc on proximal margins of caudal segments III and IV

Odontobuthus Vachon, 1950
TYPE: Buthus doriae Thorell, 1877 (2); DISTRIBUTION: N. and Central Baluchistan, W. Pakistan, India, W. Persia (Mt. Doriae).


## 83(82). Granules not as above

84(63 or 83). Three non-linear distal medium sized granules just proximad to terminal tooth of pedipalp tarsus. Central median keels of cephalothorax isolated and forming an H (fig. 20)

Buthus, Leach, 1815
TYPE: B. occitanus Amoreux, 1789 (21); DISTRIBUTION: Africa: Egypt, Ethiopia, Somalia, Libya; Palestine, Spain, Southern France.

85(83). Usually four non-linear distal granules just proximad to terminal tooth of pedipalp tarsus (fig. 21), or if with three non-lienar distal granules, then without
exterior accessory granule on granular rows of pedipalp tarsus. Central median keels of carapace distinct and joining with posterior median keels (fig. 18) Mesobuthus Vachon, 1950


Fig. 21. Mesobuthus: Terminal portion of pedipalp tarsus.

TYPE: Androctonus eupeus C. L. Koch, 1839 (20); DISTRIBUTION: Asia: India Turkestan, Afghanistan, Persia, Caucasia, Transcaucasia, Baluchistan, Malacca, Mongolia, Bukhara.

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[^1]:    52(49). Inferior surface of cheliceral fixed finger with one tooth
    53(49). Inferior surface of cheliceral fixed finger with two teeth
    54(52). Terga tri-keeled
    55(52). Terga mono-keeled.
    Isometroides Keyserling, 1889
    TYPE: Isometrus vescus Karsch, 1880 (2); DISTRIBUTION: Australia.
    56(54). Pedipalp tarsus more than twice as long as manus exterior surface and slightly shorter than carapace. Manus narrower than patella. Carapace with distinct superciliary crests.

    Psammobuthus Birula, 1911

